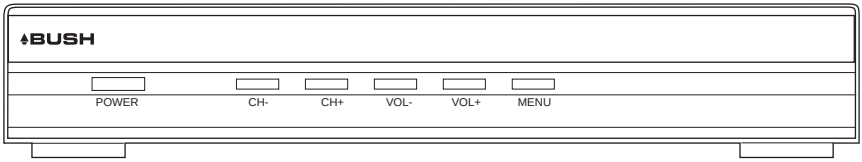
BHAS01UR



User Guide for Digital TV Receiver

Warranty: 1800 022 960

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Introduction

This user manual is intended to guide you through the operation for the Bush BHAS01UR High Definition DVBT Terrestrial Receiver.

The password may be required when you attempt to modify some advanced settings. The default password is "000000".

Main features and functions

This product is a high definition digital set top box. It fully complies with DVB-T receiver requirement specifications. It provides users with free to air high definition and standard definition digital terrestrial television and radio signals being broadcast.

Features:

1 Fully compatible with DVB-T FTA digital standard

2 Fully compatible with MPEG-4 H.264/AVC High Definition Digital TV

3 Fully compatible with MPEG-2 High Definition and Standard Definition Output

4 Fully compatible with MPEG-1 Layer I & II, Dolby Digital Audio

5 Complies with Australian Standards and MEPS requirements

6 Universal Remote Control – capable of operating the set top box and performing basic functions once programmed to a TV

7 Integrated RF Modulator

8 VHF & UHF Input and Loop Out

9 Fully supported 7 Day Electronic Program Guide(EPG)

10 Automatic and Manual search

11 Parental Control

12 Plug and Play installation with an easy to use Menu System

13 Coaxial SPDIF Digital audio output interface

14 576i, 576P, 720P, 1080i Video Resolution supported

15 Supports 4:3 and 16:9 Aspect Ratios

16 Supports Teletext (where broadcast)

17 Subtitles supported based upon availability on the network

18 Channel editing functions (Favorites, Move, Lock, Delete)

19 Supports HDMI High Definition Multimedia Interface (HDMI 1.4)

20 USB 2.0 Input supports mp3, wma, jpeg and bmp media playback and Software Upgrade.

21 Audible feedback supported

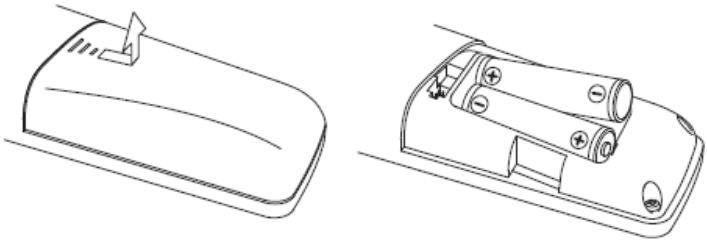
Remote control

The remote control is shown below and the button functions are listed in the table on page 6.

Key legend	Description
Home	Press at any time to return to the first scanned in Channel
TV:	Once programmed to TV will switch the TV between On and Standby
STB	Switches the Set Top Box between On and Standby: Press to Mute all audio
TV/Radio	Switch between TV and Radio mode
Swap	Reverts to the previously viewed channel
TV Input	Once programmed to TV will switch between TV input being viewed
Vol +	Increases the set top box volume, or may be programmed to increase the TV volume.
Vol -	Decreases the set top box volume, or may be programmed to decrease the TV volume.
P+	Changes the channel up.
P-	Changes the channel down.
	Moves the cursor up/left/right/down and scrolls through menus.
OK	Press to confirm selection
Guide	Accesses Electronic Programme Guide
Back	When accessing the menu, returns to previously displayed screen.
Info	Displays information of the current channel being viewed
Exit	Exits the item being viewed
Help	Press to display basic remote control function information.
Text	Displays teletext (where available)
Menu	Accesses the set top box menu
Colour Buttons (red, green, yellow, blue)	To select different options in the menu.
Numbers (0-9)	For direct channel input, or selection of sub menus in the menu.
FAV	Press to display the list of selected favourite TV channels.
SUB	Turns subtitles on or off.

Battery installation

Insert the batteries while observing the correct (+) and (-) polarities as illustrated below:



About the batteries:

- If the remote control unit fails to work even when it is operated near the set top box, please replace the batteries.
- Use size 2 x (AA) batteries.

Notes:

- Do not use rechargeable batteries.
- Do not place the batteries near a heat source such as a heater or fireplace.
- Do not mix old and new batteries.
- If the remote control unit is not going to be used for a long time, remove the batteries.

Caution. Keep batteries out of children's reach. If batteries are swallowed, contact a physician immediately.

Programming your learning remote control

Your remote control is set to work your digital set top box only. However, it is possible to programme it to also control your TV set, so that you only need to use one remote control.

When you have programmed your remote control, the following buttons will control your TV , , and .

Programming your remote control using the four digit code

Find the make of your TV in the code table listed from page 33 of this instruction manual. Keep the four digit codes for your TV close to hand while programming your remote control.

If there is no code for your TV, or the supplied codes fail to work, please refer to the the 'Programming using the search facility' section on the following page.

1 Make sure that you are pointing the remote control at the TV and not at your digital box.

2 Press both the button and the button (at the same time) until the button flashes twice. Release the keys.

3 Enter the first four digit code from the list of codes for your make of TV. The top left button will flash once every time you press a button and then twice after you press the fourth button, to confirm that you have entered a valid code.

4 Press the button and the TV should switch off. If it doesn't, repeat the whole process trying another code from the table.

5 If none of the codes work, try using the search facility explained below.

6 When the TV switches off, you will know that you have found the correct code. Your remote control will remember this code even if you replace the batteries.

7 Once you have programmed your remote control to switch your TV on and off you can programme it to control your TV volume and mute functions (to turn the sound off completely). Before you can do this, make sure that you have not turned down or muted the volume from your digital box.

a) Press both the button and the button (at the same time) and hold them down until the light under the button flashes twice. Your remote control will now work the volume and mute functions of your TV.

b) If you ever want to change these buttons back to controlling the volume and mute of your digital box, press both the vol button and the OK button (at the same time) and hold them down until the light under the home button flashes four times. Your remote control will now work the volume and mute functions of your digital box.

Programming using the search facility

1 Make sure that you are pointing the remote control at the TV and not your digital box.

2 Press both the OK button and the power button (at the same time) until the home button flashes twice. Release the buttons.

3 Press and release 9, then 9 again, then 1. The button will flash twice.

4 Press the power button and release it. The home button will flash once.

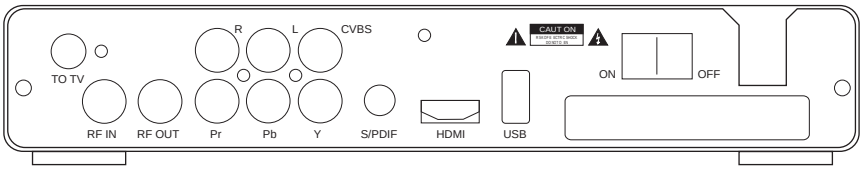
5 Now press the P+ button, and release it. Each time you press the P+ button, the remote control is searching for the correct code. Soon your TV will turn off. When it does turn off, press the OK button to confirm this code.

6 Your remote control will remember this code even if you replace the batteries.

7 Once you have programmed your remote control to switch your TV on and off you can programme it to control your TV volume and mute functions by following step 7 shown under 'Programming your learning remote control' using the four digit code.

Front and rear panels

Rear panel



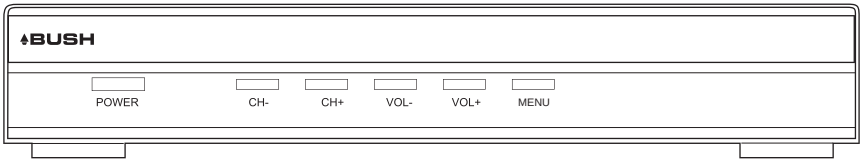
RF IN	Aerial Input
RF OUT	Output of Digital Terrestrial TV Broadcast signal – e.g. to VCR/DVD Recorder
TO TV	RF Modulated Output – Connect an aerial from this socket to the TV if the TV has no other inputs other than the aerial input
USB	USB 2.0 Port for media playback and firmware upgrade
HDMI	High Definition Digital video and audio output for use with televisions with a HDMI input. HDMI version 1.4.
CVBS	Composite Video signal output
YPbPr	High Definition Component video output
S/PDIF	Digital audio output
R (Audio)	Audio Output for the right speaker, to be used when either CVBS video output or YPbPr video output is used.
L (Audio)	Audio Output for the left speaker, to be used when either CVBS video output or YPbPr video output is used.
On/Off	Switch off when the set top box is not in use for a long period of time in order to conserve power.
AC 230V/50Hz	Power Cable: 230V AC, 50Hz.

Front panel

A red LED indicator on the front panel with the clock displaying the time will indicate if the set top box is in standby mode whilst the green LED with a channel number is an indication that the set top box is operational.

You can access basic functions via these keys including:

POWER, P-, P+, VOL-, VOL+ and MENU.



Installation

Connecting the receiver

How to get a good reception

- If your antenna is not in good condition, you should consider replacing it to ensure uninterrupted digital television viewing.
- Viewers in areas of poor analogue reception may require a specialist's advice about antenna requirements for digital reception in their area.
- It is recommended that viewers use quad shielded cable from the antenna to the television.

Connections to a TV

There are several ways of connecting your STB receiver to a television.

For High Definition viewing your TV must support either 576p, 720p or 1080i resolution. Also the connection between the STB receiver and TV must be either YPbPr Component or HDMI.

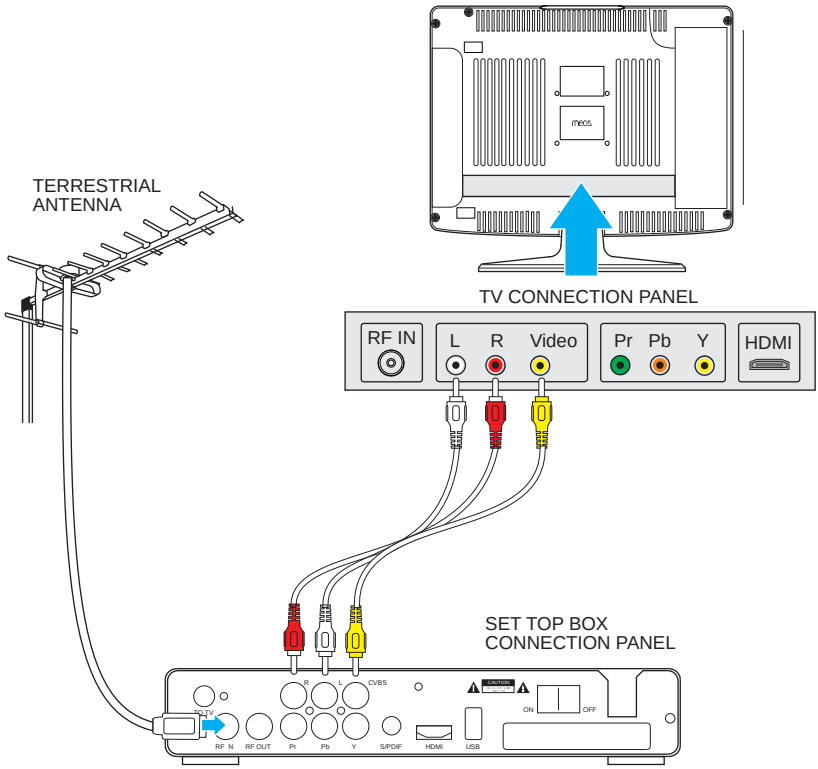
Other connections will provide Standard Definition viewing.

Warning. Please switch OFF the mains power before plugging or unplugging connected cables, otherwise it may damage the receiver.

Connect the STB receiver via composite video and audio (for standard definition viewing)

1 Connect the antenna to the ANT IN socket on the receiver.

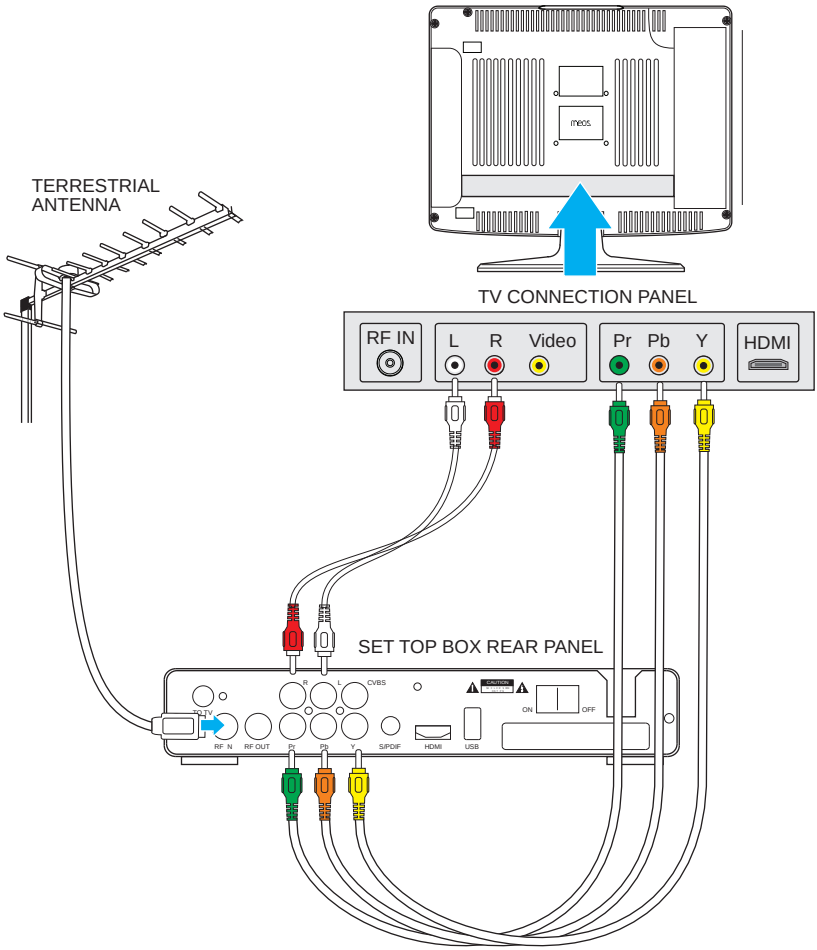
2 Connect the receiver to the TV set via the red, white and yellow composite AV cables.



Connect the STB receiver via YPbPr output and audio output (for high definition viewing)

1 Connect the antenna to the ANT IN socket on the receiver.

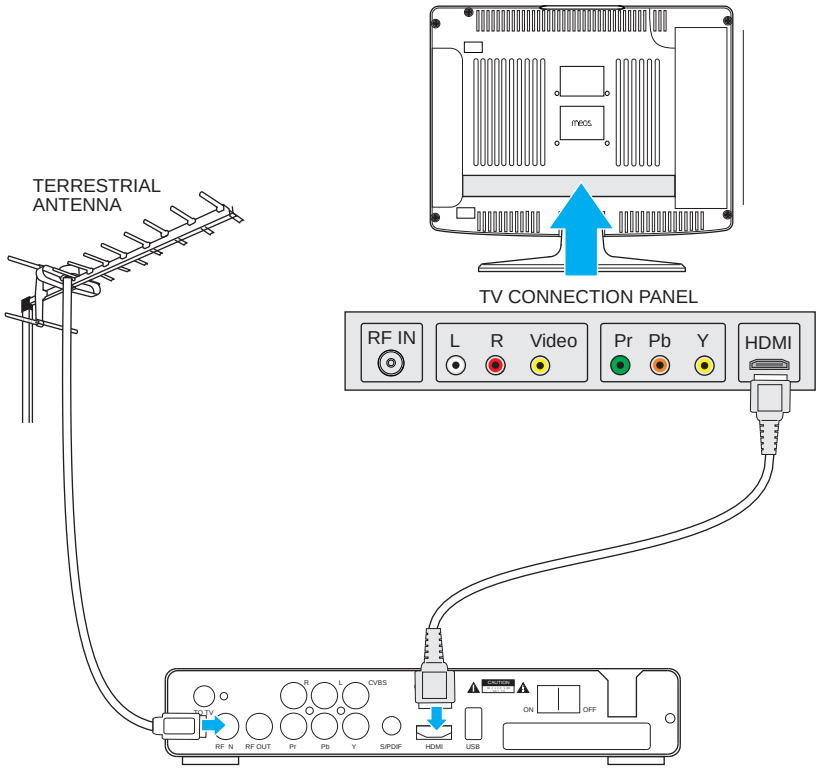
2 Connect the receiver to the TV set via the green, red and blue component AV cables (this will provide video), and the composite red and white cables (which will provide audio).



Connect the STB receiver via HDMI (for optimum high definition viewing)

1 Connect the antenna to the ANT IN socket on the receiver.

2 Connect the receiver to the TV set via a HDMI cable. This will provide both video and audio.

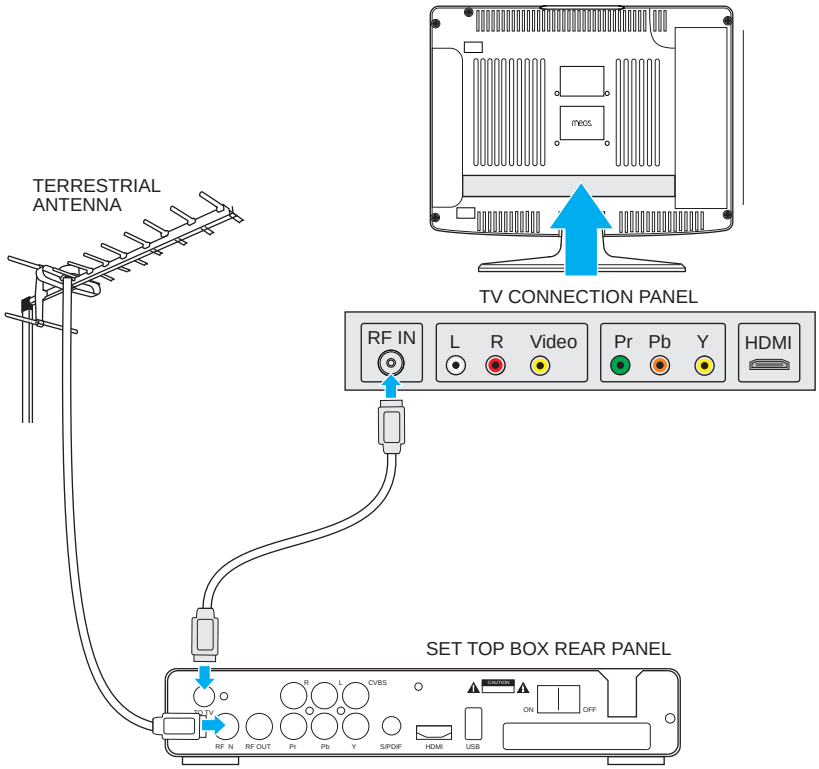


Connect the STB receiver via RF Modulator (for basic viewing)

Note. This method is used when the TV has no other input other than the Antenna Input.

1 Connect the antenna to the ANT IN socket on the receiver.

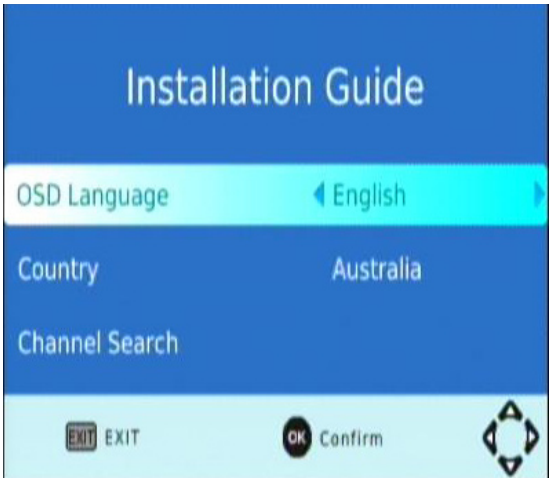
2 Connect an antenna cable to the TO TV socket on the receiver from the set top box to the antenna input on the TV.



Once you have connected the set top box to the TV you will need to locate the channel that the set top box is connected to. This will involve performing a scan of your television channels via the television remote control..

Installation guide

Ensure that all connections have been made properly, turn on the TV and make sure the receiver is connected to the Main Power. Make sure that the on/off switch on the back panel of the set top box is switched to on. Press the Power button on the front panel of the receiver to switch receiver on. If you are using the receiver for the first time or restored to Factory Default, the Installation Guide Menu will appear on your TV screen.



1 Select the On Screen Display language (OSD Language). Press the RIGHT/LEFT key to modify the language.

2 Select the Country. Press the RIGHT/LEFT key to select your country of residence.

3 Select Channel Search and press RIGHT or OK key to begin Automatic channel search.

4 Once channel tuning is complete, you are now ready to watch TV.

Basic operation

Program settings

To access the Menu,

1 Press the MENU button.

To access the program settings,

1 Select Program

2 Press OK.

The Menu provides options to adjust the Program settings.

1 Select an option.

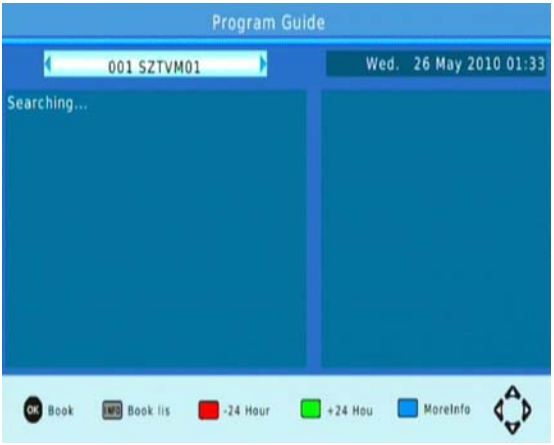
2 Press OK or RIGHT to adjust that setting.

3 Press the EXIT button to exit the Menu.

Program Edit

To edit your program preferences (Move, Skip, Lock, Delete or set as a Favourite), you will need to enter the Program Edit Menu. This Menu requires a password to access. Enter the default password '000000'.

EPG (Electronic program guide)



The EPG is an on-screen TV guide that shows scheduled programs seven days in

advance for every tuned channel (when broadcast). Press the EPG button on the Remote Control to access guide directly.

You can use the LEFT/RIGHT to view what is on other channels. Press the green key to skip forward 24 hours, and the red key to skip back 24 hours. Press the INFO key to book programme reminders and the blue key to view more information on the selected programme.

Sort

Sort your channels from the following options:

[LCN]	Sort the channels in ascending order
[ONID]	Group the channels by broadcaster
[Service Name]	Sort the channels in alphabetical order
[Service ID]	Sort the channels according to the station

LCN (Logical channel number)

Set LCN on or off.

Picture setting

1 Press MENU then select Picture, and then press OK.

2 The Menu provides options to adjust the video settings.

3 Press UP/DOWN to select an option.

4 Press RIGHT/LEFT to adjust that setting.

5 Press EXIT to exit the menu.

Aspect Ratio

Set the display format to one of the following to select the best display for your television

4:3 Full

4:3 Pan & Scan

4:3 Letter Box

16:9 Full Screen

Auto.

Resolution

If the video does not appear correctly, change the setting. The default setting is to match the most common setting for HDMI, is 1080i.

The resolution options include 576i, 576P, 720P and 1080i.

TV Format

If the video does not appear correctly, you need to change the settings. PAL is the standard format for Australia. NTSC is the other settings option.

Channel search

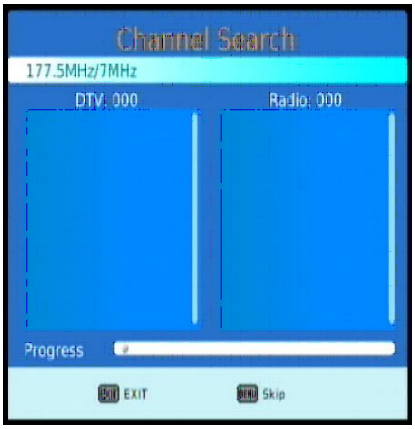
1 Press MENU and select Channel.

2 Press OK.
The Menu provides options to adjust the channel search settings.

3 Select an option and press RIGHT/LEFT to adjust the settings.

4 Press EXIT to exit the Menu.

Auto search



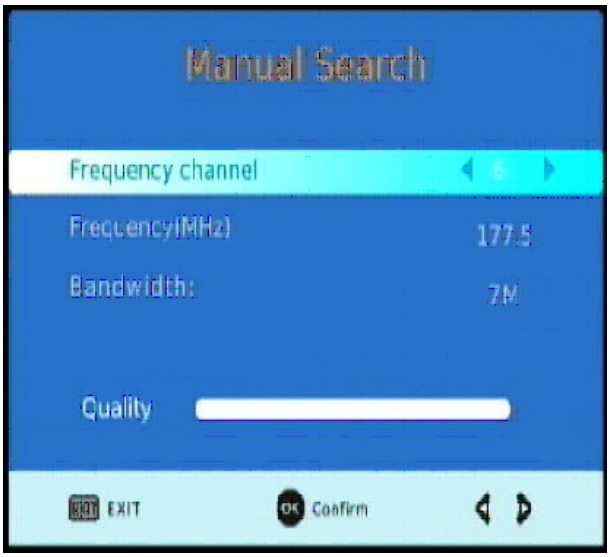
This option will search and install all channels automatically. This option overwrites all preset channels.

1. Select Auto Search and press OK or RIGHT to start channel search.

2. To cancel channel search at any time, press EXIT.

Manual search

This option allows you to install new channels manually. This option adds new channels without changing the current channels list.



1 Select Manual Search then press OK or RIGHT. The channel search screen will appear.

2 Press the RIGHT/LEFT key to select the channel frequency.

3 Press OK to start searching channels.

If a channel is found, it is saved and added to the channels list.

Country

Select your country of residence in the list displayed.

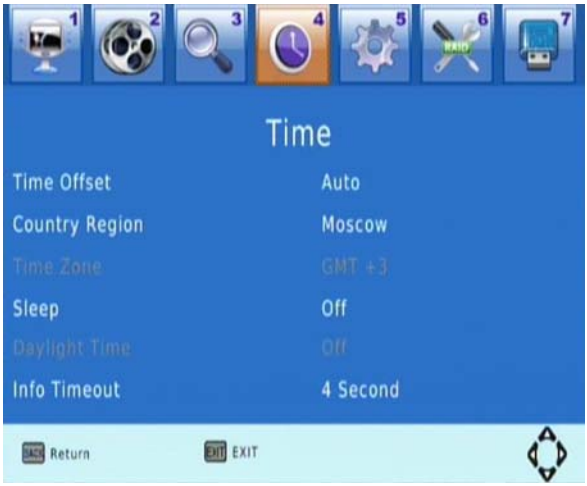
Antenna power

This function allows you to enable Antenna Power if an external active antenna is connected.

Time setting

1 Press MENU

2 Select Time, and then press OK.
The menu provides options to adjust the time settings.



3 Press UP/DOWN to select an option.

4 Press RIGHT/LEFT to adjust the setting.

5 Press EXIT to exit the menu.

Time offset

Selecting auto will automatically set the offset based upon the Country Region, whilst selecting manual allows the user to customise GMT offset settings.

Country region

Modify based on the region where the set top box is installed.

Time zone

May be customised when the time offset is set to manual.

Sleep

Allows the set top box to be programmed to switch off automatically after a set period of time.

Daylight time

May be modified when the time offset is set to manual to indicate whether the daylight saving time is active or not.

Info timeout

Customises the period of time that information boxes will appear on screen.

Option

1 Press MENU and then select Option.

2 Press OK.
The menu provides options to adjust multiple language and user settings.

3 Select an option and press RIGHT/LEFT to adjust the setting.

4 Press EXIT to exit the Menu.

OSD language

This setting allows you to customise the On Screen Display (OSD) Language from the nine languages available.

Subtitle language

If subtitles are broadcast in another language, you may select the language used to broadcast subtitles.

Audio language

If audio is broadcast in another language, you may select the language used to broadcast subtitles. If the language is not available, the default program language will be used.

Digital audio

Modify the format of digital audio being output between PCM, RAW and Off.

OSD Transparency

Customises the transparency of the on screen display including information and the menu.

Audible Feedback

When turned on this function provides a beep via the audio to advise the user that the set top box has received the remote control command.

System setting

1 Press MENU and select System.

2 Press OK.
The menu provides options to adjust the system settings.

3 Press the UP/DOWN key to select an option.

4 Press RIGHT/LEFT to adjust the setting.

5 Press EXIT to exit the Menu.

Parental Guidance

You can restrict access to channels by rating that are unsuitable for children.

To restrict/lock the channel you will need to enter either the default password '000000' or your own password (if you have modified it).

Set Password

1 Select this option to change the password.

2 Enter your 'old' password or the default password '000000'.
You will then be asked to enter a new password.

3 Re-enter your new password to confirm.

4 After it is confirmed, press EXIT to exit the Menu.

Restore Factory Default

This option will delete all preset channels and settings and return the box to the initial initial installation screen.

To reset your Set Top Box to the default factory settings,

1 In Main Menu select [Restore Factory Default]

2 Press OK or RIGHT to select.

3 Enter your password or the default password '000000'

4 Press OK to confirm and reset the settings.

Information

Select to view model, software and hardware information.

Software Update

When set to ''On'', the set top box will begin searching for new software from over air broadcasts according to your set time in ''Start Time''.

Menu Lock

When set to "On" each time the menu is accessed the password will need to be used. The default password is '000000'.

USB

This function provides the ability to playback multimedia or upgrade the set top box via the USB port.

1 Press MENU and select USB

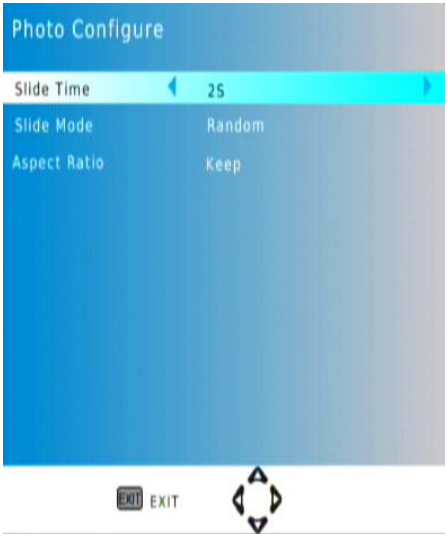
2 Press OK.

Multimedia

Select to play back multimedia including music and photo files via USB.

Photo Configure

This allows the user to customise slide time, the mode that the slides appear via, and the image aspect ratio.



USB Upgrade

Allows the unit to be upgraded via USB (if required).

Specifications

Tuner

Input Connector	IEC 16902. Female
Input Frequency Range	VHF&UHF
Number of RF Inputs	1
Input impedance	75 ohm
RF output Connector	(bypass)IEC 169-2 Male
Loop through	47-862 MHz

Demodulation

Standard	ETSI EN300 744
Guard interval Modes	1/32,1/16,1/8 Active Symbol duration
FEC Modes Rate	All modes supported including non hierarchical
Carriers/Constellation	(bypass)IEC 169-2 Male
Demodulation	COFDM(QPSK/QAM16/QAM64) 2K and 8K
Network	MFN/SFN
Channel bandwidth	7 and 8 MHz wide channel 21-68PLL

System Resources

SDRAM memory	128 MB DDR2 SDRAM (2×64MB)
FLASH memory	8 MB NOR FLASH
Display Planes	4 SEGMENTS LED
Graphic resolution	ARGB8888

Video Decoder

Standard	ISO/IEC 13818-2 and ISO/IEC 14496-10
Transport stream	ISO/IEC 13818-1
Video decoding	MPEG-2 SD/HD (MP@ML and MP@HL), MPEG-4 H.264/AVC SD/HD
DivX	3.X ~ 6.X JPEG,BMP,PNG, Motion JPEG
Aspect ratio	4:3, 16:9

Audio Decoder

Standard	ISO/IEC13818-3 TR1011154
Audio decoding	MPEG-1 and MPEG-2 Layer I & II, Dolby Digital Audio, E-AC3,WMA and HE-AAC Digital Audio
Dolby Digital (AC-3)	Stereo down-mixing to analog and digital audio outputs (including HDMI). For digital outputs, L-PCM stereo encoding is provided.
Sample rate	32 kHz, 22.1 kHz, 44.1KHz,48 kHz

Subtitles & Teletext

Subtitle	DVB Subtitle
Teletext	EBU TELETEXT

Rear Panel

CVBS outputs	1 CVBS video output
Audio CINCH	2 Analog Audio L/R connectors (white/red color)
Optical S/PDIF	Digital Audio output
YPbPr outputs	Analog HDTV video output
HDMI	Digital HDTV video output. HDMI version 1.4
USB	USB2.0

BHAS01UR

Front Panel

bi-colored LED	Red / Green to indicate the various states of the STB
4-segments LED	To display the time, channel number or/and other information.
Keys	POWER, MENU, P+, P-, VOL+ and VOL- keys.

Accessories

Remote control unit	Learning Remote Control
Batteries	2 x AA
User Manual	1 in English
Quick Start Guide	1 in English
RCA cable	1

Physical

Operating Temperature	+5 ~ 45 °C
Storage Temperature	-10 ~ +70 °C
Size (W x H x D) (mm)	230x165x40 mm

Learning remote control codes

The codes below are for use with the BHAS01UR learning remote control. Identify your brand of television for use in programming the remote control.

Acer	1339 1509
Aiko	0269 0009 0037 0069 0556 0371 0216 1681 0433 0880 0072 0361 0191 0264 0217
Aiwa	0705 0701 1904 1916 1908 1955 1505
Akai	0361 0269 0208 0371 1537 0803 0037 0433 0745 0191 0672 0696 0009 0072 0753 0218 0729 0714 0826 0163 0706 0698 0516 0715 0075 0602 0556 0548 0581 0480 0217 0631 0216 0264 0448 0178 0329 0377 0606 0586 1037 1908 0473 0648 1074 1248 1935 1308
Audiosonic	0037 0820 0556 1681 0109 0714 0715 0217 0370 0337 0264 0218 0486 0428 1983
AWA	0011 0036 0009 0157 0374 0451 0412 0037 0556 0216 0606 0217 0108 0264 1376 0178 0698 1681
Bang & Olufsen	0565 0620 0087 0275
Base	0780
Baumann Meyer	1267
Beko	0714 0486 0715 0037 0418 0428 0370 0556 0606 1308 0808 1652
BenQ	1212 1562 1574
Blaupunkt	0554 0195 0191 0535 0200 0301 0327 0448 0455 0170 0036
Bush	1037 0614 0660 0714 0037 0668 1652 0218 0163 0349 0009 0036 0371 0235 0282 0272 0355 0374 0519 0264 0361 0487 0211 0204 0208 0217 1556 0617 0698 0581 0294 0677 0556 1900 1904 1908 1667 0778 1668 1982 1248 1243 1916 1634 1682 0587 1308 1983 1211

BHAS01UR

Celestial	0819 0820 0821 0767
Centrex	0780 0826 0891 0698
Changhong	1243
Conia	0754 0821 0894 1645 0820 1211
Daewoo	0634 0661 0499 0624 0374 1909 0037 0556 0009 0216 0218 0217 0451 0039 1137 1902 1908 0841 0880 1218 1307 1598 0876 1612 0865 0698 0714 0706 0778
Digitor	0037 0556 0888 0861 1497
DSE	0888 0861 1556 1497 0820 0767 0698 1682
Erae	1371 1191
Fujitsu	0179 0683 0853 0186 0809 0206 0072 0102 0314 0217 0163 0009 0352 0037 0556 0361 0259
Fujitsu General	0186 0009 0217 0206 0163
Fujitsu Siemens	1666 1298 1248 1373 1163 0808 0809
GE	0343 0735 0174 0178 0282 0451 0560 0109 0335 0625
General Electric	0343
Grundig	0195 1371 1191 1223 0535 0191 0554 0070 1037 0487 0037 0443 0706 0205 0237 0556 0215 0587 0009 0036 0077 0370 0740 1935 1908 0260 0630 0757 1916 1308 0178 1376 0343 1981 1667 1372
Haier	1615 0698 0264 1560
Hannspree	1613
Highlander	1531

Hisense	0848 1363 1314 0208 0698 0891 0860 0780
Hitachi	1576 0056 0481 0578 0719 0225 0150 0108 0349 0744 1585 1037 1484 1481 0044 1667 1225 0634 1045 0473 0036 0563 0163 0343 0196 1163 0576 1194 0499 1149 0032 0797 0043 0194 0777 0480 0276 0516 0075 0072 0037 0469 0556 0109 0548 0178 1137 0105 0492 0359 0361 0629 0737 0877 0217
Humax	1295 1535 1539
JVC	0653 1153 0606 1653 0371 1053 0731 0683 0036 0190 0192 0193 0218 0418 0069 0093 0650
Konka	0037 0556 0371 0714 0418 0218 0641 0587 0754 0779 0894 0606
Lenoxx	1189
LG	0056 0178 1663 0037 0876 0377 0032 0009 0556 0714 0001 0217 0216 0431 0163 0606 0109 1934 0698 0715 0823 0829 1637 1146 1148 1191 1252 0247 0361 1718 1681
Loewe	0512 0633 0790 0556 0655 0370 0087 0075 0292 0362 0516 0791
Marantz	0037 0556 0412 1532
Matsui	0037 1163 0556 0487 0443 0009 0235 0177 0011 0355 0072 0036 0211 0217 0354 0294 0371 0433 0269 0579 0455 0163 0257 0272 0349 0516 0075 0431 0208 0045 0588 0195 0191 0335 0714 0260 0544 1908 1037 0629 1916 1666 0880 1471 1667
Metz	1533 0746 0388 0447 0367 0368 0087 1163 0195 0535 0554 0191 0239 0037 0556 0275 0668 1037 1668
Mitsubishi	0108 0150 0512 0093 0178 0037 0354 0087 0036 0201 0237 0193 0535 0556 0691 0208 1934 1037
MTC	0060 0370 0349 0512 0056 0163 0216 0361 0448

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NAD	0056 0166 1156 0178 0865 0361 0163
NEC	0170 1174 0587 1170 1270 0036 0320 1519 0876 0056 0455 0009 0374 0217 0037 0556 0011 0704 0245 0237 1704 0499 0653 0771 1370 1135 0661 0882 1398
Nordmende	0109 0891 0501 0399 0196 0560 0343 0568 0195 0037 0556 0335 0163 0471 1248 0714 2001 0490 0443 1585 1667 1163 1308
NU-TEC	0455 0698 0820 0037 0556 0821 0706 0264
Orion	0179 0037 0443 0355 0714 0235 0556 0655 0294 0177 0320 0011 0009 0321 0211 0314 0102 0269 0077 0264 0412 0516 0531 0544 1916 1908 0880 1196 2001 1954
Palsonic	0264 0412 0037 0217 0377 0218 0698 0556 0448 0773 0779 0001 0418 0778 1196 1507 1269 1681
Panasonic	0650 1636 1650 0226 1310 1210 0340 0214 0361 0853 0237 1930 0850 0367 0368 0516 0075 0037 0556 0163 0548 0771 0001 0108
Philips	0556 0037 0238 0721 1506 0639 1495 0012 0605 0772 1246 0013 0323 1304 0554 0043 0087 0193 0423 0343 0374 0009 0200 0690 0361 1521
Pioneer	1260 0011 0170 0166 0679 0037 0556 0423 0428 0370 0343 0361 0109 0163 0486 0512
Princess	0698
Proview	1645 1211
Pye	0037 0556 0012 0013 0087 0554 0374 0349 0412
Rank Arena	0036 0157 0602 0753
Samsung	0056 0178 0618 0587 0093 1619 1458 0556 1249 0644 1584 1235 0009 0037 0217 0448 0482 0370 0060 0766 0814 0072 0264 0682 0329 0216 0290 0032 0039 0519 0163
Sansui	0037 0729 0556 0706 0655 0371 0727 1935 0602 0421 0455

	0861 0888 0753 1371 1191 1531 0826 1553 1594 1243 0698 0264 0714 1537 1384 1964 1248 1681 1556
Sanyo	0208 1208 0157 0292 0721 0036 0011 0370 1507 0339 0072 0216 0217 0104 0045 0555 0146 0009 0544 0163 0037 0108 0556 0486 0735 0893 0170 0704 1037 1667 1149 1163 1585
Schaub Lorenz	0548 1267 0714 0361 0349 0606 0486 0374 1191 1324 1194 1363 1371 1667
Sharp	0093 1193 0039 1586 1393 0157 0036 0491 1587 0818 0294 0653 0256 0193 0186 0516 0200
Sherwood	1399
Siemens	0191 0535 0554 0200 0195 0301 0327 0157 0032 0146 0037 0556 0361
Soniq	1298
Sony	1505 1651 1010 0011 0353 1551 0834 0036 1317 0102 0742 0157
Tatung	1720 0621 0037 1553 1248 1556 0556 0072 0516 0075 0217 0272 0011 0629 1908 1756 1371 1191 1719 1372 1324
TCL	1916 0625
Teac	0698 1645 0037 1437 1037 0556 0512 0712 0668 0455 0217 0706 0264 0544 0624 1909 0178 0009 0412 0349 0721 0282 0336 0418 0431 0755 0170 0714 1668 1149 1755 1203 1529 1363 0587
Teco	1040 1313
Telefunken	0056 0625 0560 0587 0074 0109 0698 0712 0343 0498 0820 0896 0754 0501 1504 1626 0471 0399 0780 0891 0819 0101 0335 1681 1243 0073 0196 0753 0037 0706 0556 0486 0568 0714 0490 1556 0346 0821 1585
Tempest	0009 0037 0556 0264

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Tevion	0894 1248 1298 1645 1556 0767 0808 1667 0865 1211 1585
Toshiba	1508 0508 0060 1656 0714 1945 0036 0502 0204 1935 0070 0102 0241 1164 1704 0217 0109 0490 0077 0195 0191 0618 1916 1908 0009 0698 0037 0736 0832 1556 0650 1156 1037
Toyoda	0009 0371 0276 0493 0264
ViewSonic	1755 1330 1542 1513 1511
Voxson	0087 0037 0556 0418 0163 0178
Yamaha	0650 0797 1526 1576

Product warranty

Keep your receipt or proof of installation as proof of purchase. This product is warranted for any defect in materials or workmanship for one year after the original date of purchase. This product is for normal domestic and office use only.

This warranty does not cover damage from misuse or neglect, accidental damage, vermin infestation, excessive voltages such us lightning or power surges or any alternation that affects the performance or reliability of the product.

In the unlikely event that your product fails to work normally, please contact the Warranty Helpline on 1800 022 960 and have your receipt of purchase or proof of installation on hand.

This guarantee is subject to the following provisions:

1 It is only valid within boundaries of the country of purchase;

2 The product must be correctly assembled and operated in accordance with the instructions contained in the manual;

3 This product must be used solely for domestic purposes;

4 The guarantee does not cover accidental damage;

5 The guarantee will be rendered invalid if the product is resold or has been damaged by inexpert repair;

6 The manufacturer disclaims any liability for incidental or consequential damaged.

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